

## CHAPTER 1

**Nurseries and other producers located inside the Light Brown Apple Moth (LBAM) State Interior Quarantine area or within 1.5 miles of a LBAM detection**

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*The procedures outlined in this chapter apply to **production nurseries, retail nurseries** and **producers** of cut flowers, garlands, wreaths or greenery, and cut Christmas trees located inside the State Interior Quarantine (CCR 3434) or within 1.5 miles of a LBAM detection.*



### **SECTION 1: TRAPPING AND INSPECTION**

#### **A Interstate and Intrastate Shipping Nurseries and Growing Locations (Production and Retail)**

- (i) Trapping:
  - (a) Place LBAM traps at the rate of one per five acres or at least one trap if nursery is less than five acres
  - (b) Service traps biweekly
  - (c) Nursery or growing ground must implement a robust Integrated Pest Management (IPM) program
- (ii) Inspection:
  - (a) Biweekly visual inspection of all plants intended for movement within two weeks, **OR**
  - (b) Monthly visual inspections of all plants intended for movement within one month if produced and maintained in an enclosed growing facility- adequacy of the enclosure to be determined by the LBAM Project, **OR**
  - (c) Per shipment inspection

## B Non-Shipping Retail Nurseries

- (i) No LBAM trapping is required
- (ii) Monthly visual inspection of all plants or storage of plants indoors during the hours between dusk and dawn
- (iii) Nursery must implement an IPM program targeting tortricid larvae

## **SECTION 2: PROCEDURES FOR *SUSPECT* LBAM COLLECTIONS**

*Use the following procedures when suspect LBAM specimens are collected at a nursery or growing location.*

- (i) If suspect adult (male/female, trapped or otherwise caught) is collected, **no action is required** until moth is identified by CDFA PPDB lab
- (ii) If suspect larva, pupa or egg mass is collected, **infested plants or lots** must be placed on hold
- (iii) No holding action is required for non-infested plants until genetic or morphological evaluation of the specimen is completed by the CDFA PPDB lab

## **SECTION 3: PROCEDURES FOR “CONFIRMED” LBAM COLLECTIONS**

*Use the following procedures when LBAM has been confirmed from a nursery or growing location.*

- (i) If adult male is confirmed, **no action is required**
- (ii) If adult female, or larva, pupa, or egg mass, or “possible LBAM” larva, pupa, or egg mass is confirmed through genetic or morphological analysis, **all plants on premises** must be placed on hold. One or more of the options below must be conducted:
  - (a) Treat all plants at nursery with product efficacious against LBAM eggs and larvae ([CDFA PHPPS extranet site](#)). Plants must be 100% re-inspected after treatment with negative findings before release, **OR**

- (b) All plants intended for shipment in two weeks must be treated with product efficacious against LBAM eggs **and** larvae ([CDFA PHPPS extranet site](#)). Plants must be 100% re-inspected after treatment with negative findings before release, **OR**
  - (c) All plants intended for shipment in two weeks must be treated with product efficacious against LBAM larvae ([CDFA PHPPS extranet site](#)). Treated plants must be safeguarded in an approved enclosure for ten days. Adequacy of the enclosure to be determined by the LBAM Project. LBAM detection traps must be placed in the enclosure at a rate of one trap per five acres or one trap per nursery if less than five acres. Treated plants must be 100% re-inspected after ten-days with negative findings before release, **OR**
  - (d) All plants intended for shipment within 30 days must be safeguarded in an approved enclosure for 30 days. Adequacy of the enclosure to be determined by the LBAM Project. LBAM traps must be placed in the enclosure at a rate of one trap per five acres or one trap per nursery if less than five acres. Safeguarded plants must be 100% re-inspected after 30-days with negative findings before release, **OR**
  - (e) Special protocol for infested **retail** nursery inside State Interior Quarantine:
    - Place entire nursery on HOLD
    - Nursery may opt to destroy all infested plants (plants only; not lots)
    - Treat all remaining plants with an approved larvacide
    - Begin robust IPM program that may include the use of mating disruption wicks and treatment of in-ground plantings that may be a source of contamination
    - 100% re-inspection of all nursery stock with negative results prior to release
    - Post or distribute LBAM flyer in location visible to all customers directing them not to remove plants from LBAM State Interior Quarantine
    - Post or distribute current LBAM State Interior Quarantine map in location visible to all customers
- (iii) If live LBAM female, larvae, pupae, or egg masses are detected after treatment and re-inspection, infested plants or lot(s) must be held or re-treated and re-inspected with negative findings before release. All non-infested plants may be release

## **SECTION 4: CERTIFICATION AND COMPLIANCE AGREEMENTS**

*Use the following procedures to issue a compliance agreement for any nursery or growing location shipping **intrastate** from a State Interior Quarantine.*

- (i) Quarantine certification must accompany all shipments of nursery stock, cut flowers, garlands, wreaths or greenery, and cut Christmas trees (interstate and intrastate from and within the area covered by the State Interior Quarantine)
- (ii) In lieu of an original certificate, shipping nurseries and growing locations may be issued a compliance agreement by the county agricultural commissioner or the LBAM Project (**Exhibit A1**) ([CDFA PHPPS extranet site](#))
- (iii) Retail nurseries that do not ship may be issued a compliance agreement with **Exhibit B**. Such nurseries must make the informational LBAM flyers and quarantine maps available to all customers who purchase plant material ([CDFA PHPPS extranet site](#))
- (iv) **Non-producers** of cut flowers, garlands, wreaths, greenery and cut Christmas trees located in a regulated county shipping **interstate and intrastate** may enter into a compliance agreement with the county agricultural commissioner or the LBAM Project (**Exhibit J**) and may be authorized to use a master quarantine certificate or federal shield under one of the following conditions:
  - (a) Shipping locations may only receive commodities from quarantined areas if accompanied by a federal shield (**Exhibit F**) or other quarantine compliance certificate **OR**
  - (b) Shipping locations must make commodities available for periodic inspections as determined necessary by the county agricultural commissioner or the LBAM Project